

# SEIKO ASTRON

2016-2017 CATALOGUE





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| <p><b>1881</b> K. Hattori, predecessor of today's Seiko Holdings Corporation, established.</p> <p><b>1892</b> Seikosha clock supply factory established; production of wall clocks begins.<br/>Seikosha builds the first pocket watch.</p> <p><b>1913</b> Production of Laurel, the first wristwatch made in Japan begins.</p> <p><b>1953</b> SEIKO sponsors Japan's first TV commercial.</p> <p><b>1959</b> SEIKO commercializes quartz clocks for broadcasting use.</p> <p><b>1964</b> SEIKO develops the portable quartz chronometer and Seiko serves as Official Timer for the "Games of the XVIII Olympiad" held in Tokyo.</p> <p><b>1968</b> SEIKO achieves the highest ever score in the Geneva competition and is awarded the "best mechanical wrist chronometer".</p> | <p><b>1969</b> Introduction of cal. 6139, the world's first automatic chronograph watch equipped with both vertical clutch and column wheel.<br/>Introduction of the world's first quartz watch, "SEIKO Quartz Astron" cal. 3500.</p> <p><b>1982</b> Introduction of the world's first TV watch cal. T001.</p> <p><b>1988</b> Introduction of the world's first "Auto Quartz" watch cal. 7M42. (later renamed as "Kinetic").</p> <p><b>1992</b> Introduction of 1/100th analogue quartz chronograph watch cal. 7T59.</p> <p><b>1999</b> Introduction of the world's first Spring Drive watch cal. 7R68 (hand winding).<br/>Introduction of the Ultimate Kinetic Chronograph cal. 9T82.</p> <p><b>2005</b> Introduction of the Kinetic Perpetual cal. 7D48.<br/>Introduction of the Spring Drive cal. 5R series (automatic winding).</p> |
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| <p><b>2006</b> Introduction of the world's first watch with electrophoresis display module cal. G510.</p> <p>Introduction of the Credor Spring Drive Sonnerie cal. 7R06.<br/>Suggested retail price: 15 million Japanese Yen.</p> | <p><b>2012</b> SEIKO introduces the world's first Solar Powered GPS watch that supports all internationally recognised timezones.</p> |
| <p><b>2007</b> Introduction of the Kinetic Direct Drive cal. 5D44.</p> <p>Introduction of the Spring Drive Chronograph cal. 5R86 equipped with both vertical clutch and column wheel.</p>   | <p><b>2013</b> 100 years of SEIKO Wrist watches marked by a collection of Special Edition models.</p>                                 |
| <p><b>2009</b> Introduction of the Chronograph Perpetual.</p>   | <p><b>2014</b> SEIKO introduces the world's first Solar GPS watch with a chronograph.</p>   |
| <p><b>2010</b> World's first EPD watch with an active matrix system.</p>  | <p><b>2015</b> Astron GPS Solar Dual Time with AM &amp; PM indicator is introduced.</p>   |
| <p><b>2011</b> SEIKO's 130th Anniversary<br/><br/>Served as Official Timer of the IAAF World Championships Daegu 2011.</p>  | <p>SEIKO celebrates 50 years of diver's watches.</p>  |
|   | <p><b>2016</b> Astron GPS Solar World Time introduced.</p>  |

The SEIKO website is designed to provide customers, retailers and consumers with instant access to information about SEIKO. Log onto [www.seiko.com.au](http://www.seiko.com.au) and click the following links to find out all there is to know about the world's leading watch manufacturer.

**Products** – Learn more about the SEIKO Premium Collection or explore the entire SEIKO product range.

**Support** – Designed with retailers in mind, this section provides service information, instruction manuals you can download and 'frequently asked questions' to aid in troubleshooting, procedures for sending back repairs for prompt and efficient service.

**About Us** – Discover SEIKO's history from humble beginnings in 1881 and the rise that carried SEIKO to new heights and international renown. Learn about corporate structure, global networks and SEIKO's extensive involvement in sports timing.

**Corporate** – This section outlines specialised services that include the printing of company logos on the dial of a watch or clock, engraving and personalised messages, as well as customised packaging and more.

SEIKO will continue to grow and evolve and so too will [www.seiko.com.au](http://www.seiko.com.au), so keep checking for regular updates. Please send any comments you have to [info@seiko.com.au](mailto:info@seiko.com.au), all feedback is welcome.

**[www.seiko.co.nz](http://www.seiko.co.nz)**

**BELOW ARE THE ABBREVIATIONS AND SYMBOLS YOU WILL FIND IN THIS CATALOGUE****ADVERTISED MODEL**

— Advertised model



Solar



New release model



Stainless steel case



Water resistance



Titanium



Ceramic

**SSE003J \$4700**

— Reference number and price

GPS SOLAR CHRONOGRAPH — Watch type

TCE.TIHICDCWR (10BAR) — Case material (refer to Abbreviations page)

SAPPHIRE GLASS — Glass type

M0VR111H0 — Band reference

8X82 — Calibre Number

## WATER RESISTANCE USAGE

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### EVERYDAY LIFE (International Standard ISO 2281) Recommended Usage

Splash Resistant	●	●	●	●	●	●	●
Rain Resistant	●	●	●	●	●	●	●

### SWIMMING/WATERSPORTS (International Standard ISO 2281) Recommended Usage

Water-related Work		●	●	●	●	●	●
Swimming		●	●	●	●	●	●
Watersports (Snorkelling, Surfing, etc)			●	●	●	●	●

### DIVING (International Standard ISO 6425) Recommended Usage

Scuba Diving						●	●
Saturation Diving							●

<b>18KYG</b>	18K yellow gold, 18KYG middle, and 18KYG back
<b>AHC</b>	All Hard Coat case and back
<b>ALSGP</b>	All Light SEIKO Gold Colour Plated case
<b>ASG</b>	All SEIKO Gold Plated case
<b>ATI</b>	All Titanium case
<b>ATIHICDC</b>	All TI case with super hard coating
<b>BTIHC.MBTIHC</b>	All high intensity titanium
<b>CE</b>	Ceramics
<b>FRP</b>	Fibre Reinforced Plastic
<b>GPD<sup>P</sup></b>	Combined SGP and PDP middle with bezel and SS back
<b>GPHC</b>	Combined SGP and HC middle with bezel and SS back
<b>HC</b>	Hard Coating SS middle with bezel and SS back
<b>HC.SSHC</b>	HC bezel and middle with combined SS and HC back
<b>HGC</b>	Hard Gold Coating middle with bezel and SS back
<b>LSGP</b>	Light colour SGP
<b>MHC</b>	HC middle with SS bezel and back
<b>MSSGP</b>	SS bezel, combined SS and SGP middle and SS back
<b>MSSPCD</b>	SS bezel combined SS and plastic middle with SS back
<b>MSS.HC</b>	SS middle with HC bezel and back
<b>PDP</b>	Palladium plated middle with bezel and SS back
<b>SGP</b>	SEIKO Gold Colour Plate and Stainless Steel back
<b>SS</b>	Stainless Steel case
<b>SSGP</b>	Combined SS and SGP middle with bezel and SS back
<b>SSH<sup>C</sup></b>	Combined SS and HC middle with bezel and SS back
<b>TCE.GP</b>	CE bezel, SGP middle, and SGP back
<b>TCE.MTIHICDC</b>	CE bezel, TI with super hard coating middle, and TI with super hard coating back
<b>TCE.TIHC</b>	CE bezel, TIHC middle and TIHC back
<b>TGPCE.MGP</b>	Combined SGP and Ceramic bezel, SGP middle and SS back
<b>TGPDP</b>	Combined SGP and PDP bezel, SS middle and SS back
<b>TGP.MGPHC</b>	SGP bezel, SGP and HC middle and SS back
<b>TGP.MSSGP</b>	SGP bezel, combined SS and SGP middle and SS back
<b>TGP.TIHCC<sup>E</sup></b>	SGP bezel, combined TI, HC, and CE middle (No case back as it's a one piece case model)
<b>TGPTI.TI</b>	Combined TI and SGP bezel, TI middle and TI back
<b>THC</b>	HC bezel, SS middle and SS back
<b>THC.BTI</b>	HC bezel, BTI (Bright Titanium) middle and BTI back
<b>THC.MHCPCDP</b>	HC bezel, combined HC and plastic middle with SS back
<b>THC.MSSCE</b>	HC bezel, combined SS and CE middle, and SS back
<b>THC.TIHCC<sup>E</sup></b>	CE Outer Case, TI HC Inner Case
<b>THGM CETI HG</b>	HGC bezel, combined Ceramics, TI and HGC middle and combined Ceramics, TI and HGC back
<b>TI</b>	Titanium
<b>TPDP</b>	PDP bezel, SS middle and SS back
<b>TSGP</b>	Combined SS and SGP case and SS back
<b>TSSCE</b>	Combined SS and Ceramic bezel , SS middle and SS back
<b>TSSGP</b>	Combined SS and SGP bezel, SS middle and SS back
<b>TSSGP.GP</b>	SSTGP bezel, SGP middle, and SGP back
<b>TSSH<sup>C</sup></b>	Combined SS and HC bezel, SS middle and SS back
<b>TSSH<sup>C</sup>.HICDC</b>	SSH <sup>C</sup> bezel, SS with super hard coating, and SS with super hard coating back
<b>TTIHC.MTIHICDC.TI</b>	Ti & HC bezel, Ti & HC middle, Ti Back
<b>TTIHC.TI</b>	Combined TI and HC bezel, TI middle and TI back
<b>WR</b>	Water Resistant
<b>XL</b>	Lumibrite hands and hour markers

## **ACCURATE TIME, HARNESSING THE POWER OF GPS**

Once a day when fully charged, Seiko Astron receives the time signal automatically and, on demand, connects to four or more of the GPS satellites that orbit the earth\*<sup>1</sup>, thus pinpointing its position and identifying the time zone and the exact time\*<sup>2\*<sup>3</sup></sup>. The hands adjust automatically to the correct local time with atomic clock precision.

### **NO BATTERY CHANGE NEEDED. EVER**

Astron is entirely self-sustaining and takes all the power it needs just from light. There is no need, ever, to change a battery.



### **PERPETUAL CALENDAR CORRECT UP TO FEBRUARY 2100**

Astron has a perpetual calendar that is accurate up to February 2100, irrespective of leap years.

### **IN-FLIGHT MODE(✈)**

In order to avoid any interference with the operation of electronic devices in an airplane, in-flight mode is available when boarding a plane. In the in-flight mode, the GPS signal reception function will not work.

### **DAYLIGHT SAVING TIME (DST) FUNCTION**

In areas where Daylight Saving Time (DST) applies, the time can be adjusted manually.

### **MULTI-INDICATOR**

The multi-indicator has four functions:

- GPS signal reception display
- Power reserve indication
- In-flight mode(✈) on/off indication
- DST (Daylight Saving Time) on/off indication



## THE WORLD'S FIRST GPS SOLAR WATCH

Thanks to the creation of an ultra-low consumption GPS module, Seiko has been able to create a watch that can receive GPS signals and identify time zone, time and date using the global network of GPS satellites. This breakthrough timepiece inherits the name of the Astron. Like its celebrated 1969 predecessor which was the world's first quartz watch, the new Astron ushers in a new age of timekeeping technology.



## THE SECRET IS IN ENERGY MANAGEMENT

Only Seiko's advanced energy-efficiency technology could invent the miniature GPS receiver that requires so little energy to receive GPS signals from four or more satellites. And only Seiko's advanced IC circuitry expertise could make it possible for watch to see the world as divided into one million 'squares' and allocate a time zone to each.

## SEIKO'S HISTORY OF ENERGY MANAGEMENT

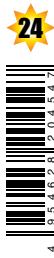
- 1969: The first Astron was the world's first quartz watch. It was made possible by a low-drain stepping motor.
- 1977: Seiko made its first ever solar watch, using just the power of light.
- 1988: Seiko Kinetic was the first watch to convert mechanical energy into electrical with a rotor that spins at up to 100,000 rpm.
- 1999: A mechanical watch with a new type of escapement, Spring Drive is a technology unique to Seiko. It uses so little electrical power that, if everyone on earth wore Spring Drive, the total energy used would power just one light bulb.
- 2012: The new Astron: The world's first GPS solar watch, which is so energy efficient that it can connect to the GPS network using just the power of light.

\*1 The watch has to be under an open sky with good visibility, where the GPS signals can easily be received.

\*2 Cal.7X52: Time zone data as of January 2012. Cal.8X82: Time zone data as of January 2014.  
Changes to time zones occurring after these dates are not programmed and manual adjustment may be required.

\*3 If the time zone is adjusted near a time zone boundary, the time of the adjacent time zone may be displayed. To adjust the time zone, use the manual time zone(city) selection mode.

## GPS SOLAR WORLD TIME

Case Size  
44.8mm**SSE091J \$4700**GPS SOLAR WORLD TIME, TCE.TIHICDNWR, (10BAR), XL,  
SAPPHIRE GLASS, LIMITED EDITION 3,000 PIECES WORLDWIDE,  
S02A001W0, 8X22

## GPS SOLAR WORLD TIME



Case Size  
44.8mm



**SSE105J \$3500**



GPS SOLAR WORLD TIME, TCE.TIGPWR, (10BAR), XL, SAPPHIRE GLASS,  
LIMITED EDITION NOVAK DJOKOVIC 3,500 PIECES WORLDWIDE,  
LOCK01AP9, 8X22

## GPS SOLAR WORLD TIME

Case Size  
44.8mm**SSE089J \$3500**GPS SOLAR WORLD TIME, TCE.TIHICDNWR, (10BAR), XL,  
SAPPHIRE GLASS, M0YX113W0, 8X22Case Size  
44.8mm**SSE087J \$3100**GPS SOLAR WORLD TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0YX113H0, 8X22Case Size  
44.8mm**SSE096J \$3100**GPS SOLAR WORLD TIME, TCE.TIGPWR, (10BAR), XL,  
SAPPHIRE GLASS, LOCK013P9, 8X22

## GPS SOLAR DUAL TIME

ADVERTISED MODEL

24



4 9 5 4 6 2 8 1 9 3 4 0

Case Size  
45mm

24



4 9 5 4 6 2 8 1 9 3 4 1

Case Size  
45mm

24



4 9 5 4 6 2 8 1 9 9 9 3

Case Size  
45mm**SSE041J \$4500**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXE11H0, 8X53**SSE043J \$4500**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXE11H0, 8X53**SSE075J \$4100**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXF11M0, 8X53

24



4 9 5 4 6 2 8 1 9 3 4 5

Case Size  
45mm

24



4 9 5 4 6 2 8 1 9 9 9 2

Case Size  
45mm

24



4 9 5 4 6 2 8 1 2 0 8 5 7

Case Size  
45mm**SSE049J \$4100**GPS SOLAR DUAL TIME, TCE.HIHICWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXF11M0, 8X53**SSE073J \$4100**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXF11H0, 8X53**SSE101J \$3800**GPS SOLAR DUAL TIME, TCE.TIHICDCW, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXF11H0, 8X53

24



4 9 5 4 6 2 8 1 9 3 4 2

Case Size  
45mm

24



4 9 5 4 6 2 8 1 9 7 9 7

Case Size  
45mm**SSE045J \$4100**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
MOXF11H0, 8X53**SSE061J \$4100**GPS SOLAR DUAL TIME, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, CABOCHON CROWN,  
LOCK011J9, 8X53

## GPS SOLAR DUAL TIME



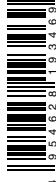
24

**SSE079J \$3200**GPS SOLAR DUAL TIME, TCE.HCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VS111M0, 8X53

24

**SSE051J \$3200**GPS SOLAR DUAL TIME, TCE.HCDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VS111H0, 8X53

24

**SSE053J \$3200**GPS SOLAR DUAL TIME, TCE.HCDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VS111H0, 8X53

24

**SSE077J \$3200**GPS SOLAR DUAL TIME, TCE.HCDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VS111H0, 8X53

24

**SSE055J \$3200**GPS SOLAR DUAL TIME, TCE.GPWR, (10BAR), XL, SAPPHIRE GLASS,  
CABOCHON CROWN, R01Z011P0, 8X53

## GPS SOLAR CHRONOGRAPH

**SSE003J \$4700**GPS SOLAR CHRONOGRAPH, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VR111H0, 8X82**SSE007J \$4700**GPS SOLAR CHRONOGRAPH, TCE.TIHICDCWR, (10BAR), XL,  
SAPPHIRE GLASS, M0VR111H0, 8X82**SSE009J \$4700**GPS SOLAR CHRONOGRAPH, TCE.TIHICWR, (10 BAR), XL,  
SAPPHIRE GLASS, M0VR111M0, 8X82

## PRODUCT INFORMATION MATRIX

Model Number	Calibre Type	Calibre Function	Power Reserve/Battery Life	Battery Type	Calibre Number	Display	Water Resistance	Band Reference	Glass Type	Crown	Rotating Bezel	Hand Indicators	Calendar Indicators	Luminite	Stone Set Type	Stone Set Qty	Alarm
SSE003J	Solar - Powered By Any Light Source	GPS Chronograph	2 Year Power Reserve	N/A	8X82	Analogue	100 Metres	M0VR111H0	Sapphire	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE007J	Solar - Powered By Any Light Source	GPS Chronograph	2 Year Power Reserve	N/A	8X82	Analogue	100 Metres	M0VR111H0	Sapphire	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE009J	Solar - Powered By Any Light Source	GPS Chronograph	2 Year Power Reserve	N/A	8X82	Analogue	100 Metres	M0VR111M0	Sapphire	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE041J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XE117H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE043J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XE118H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE045J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE049J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111M0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE051J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0VS111H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE053J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0VS111H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE055J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	R01Z011P0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE061J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	LOCK011J9	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds, AM/PM	Date, Day Of The Week	Hands & Markers			
SSE073J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds	Date				
SSE075J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111M0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds	Date				
SSE077J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0VS111H0	Sapphire	Pull Out		Hour, Minute, Seconds	Date				
SSE079J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0VS111M0	Sapphire	Pull Out		Hour, Minute, Seconds	Date				
SSE087J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	M0YX113H0	SAPPHIRE	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE089J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	M0YX113W0	SAPPHIRE	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE091J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	S02A001W0	SAPPHIRE	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE096J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	LOCK013P9	SAPPHIRE	Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			
SSE101J	Solar - Powered By Any Light Source	GPS Dual Time	2 Year Power Reserve	N/A	8X53	Analogue	100 Metres	M0XF111H0	Sapphire	Cabochon - Pull Out		Hour, Minute, Seconds	Date, Day Of The Week	Hands & Markers			
SSE105J	Solar - Powered By Any Light Source	GPS Solar - 3 Hands	2 Years Power Reserve	N/A	8X22	Analogue	100 Metres	LOCK01AP9	SAPPHIRE	Cabochon - Pull Out		Hour, Minute, Seconds	Date	Hands & Markers			

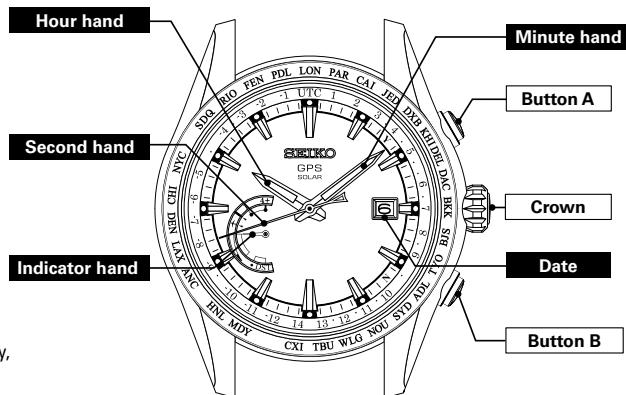
## PRODUCT INFORMATION MATRIX

# OPERATING INSTRUCTIONS

## SOLAR GPS WORLD TIME (8X22)

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly\*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date and day of the week automatically until February 2100 including leap years and short months
- World Time
- Dual
- Power Save Mode – GPS Solar sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

\* Time zone data as of March 2015. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



\* Display of city name may vary depending on the model.

### HOW TO ADJUST TIME USING GPS SIGNALS

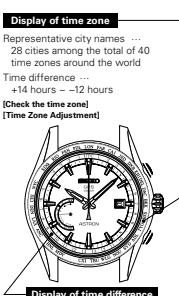
- 1) Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure GPS Solar is out of flight mode – follow the steps detailed later in this guide.
- 2) Press and hold BUTTON A . The second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the second hand moves to the 30 second mark release BUTTON A.
- 3) The second hand will then move around the dial pointing at the number markers indicating how many satellites it is connected to. If it is pointing at the 3 marker, it is connected to three satellites etc. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
- 4) After GPS Solar connects to satellites the second hand will move to Y (8 second mark) for a successful connection, or N (22 second mark) for an unsuccessful connection. The Y & N are indicated on the inner dial ring.
- 5) The main hands on GPS Solar will move to the correct time based on your position.

### MANUAL TIME ZONE ADJUSTMENT & WORLD TIME FUNCTION

In places where the GPS timezone change is not possible GPS Solar can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

- 1) Pull the crown out to the first click. The second hand will move and point to the current timezone set detailed on the bezel, or inner dial ring (model dependant).
- 2) Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
- 3) Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.



City code	Display of time difference	City name	UTC + hours	City code	Display of time difference	City name	UTC + hours	City code	Display of time difference	City name	UTC + hours
LOM	UTC	★London	0	BJS	8	Beijing	+8	HNL	-10	Honolulu	-10
PAR	1	★Paris ★Berlin	+1	—	•	Eucla	+8.75	—	•	Marquesas Islands	-9.5
CAI	2	★Cairo	+2	TYO	9	Tokyo	+9	ANC	-9	★Anchorage	-9
JED	3	Jeddah	+3	ADL	•	★Adelaide	+9.5	LAX	-8	★Los Angeles	-8
—	•	★Tehran	+3.5	SYD	10	★Sydney	+10	DEN	-7	★Denver	-7
DXB	4	Dubai	+4	—	•	★Lord Howe Island	+10.5	CHI	-6	★Chicago	-6
—	•	Kabul	+4.5	NOU	11	Nouméa	+11	NYC	-5	★New York	-5
KHI	5	Karachi	+5	—	•	Norfolk Island	+11.5	—	•	Caracas	-4.5
DEL	•	Delhi	+5.5	WLG	12	★Wellington	+12	SDQ	-4	Santo Domingo	-4
—	•	Kathmandu	+5.75	—	•	★Chatham Islands	+12.75	—	•	★St. John's	-3.5
DAC	6	Dhaka	+6	TBU	13	Nuku'alofa	+13	RIO	-3	★Rio de Janeiro	-3
—	•	Yangon	+6.5	CXI	14	Kiritimati	+14	FEN	-2	Fernando de Noronha	-2
BKK	7	Bangkok	+7	—	-12	Baker Island	-12	PDL	-1	★Azores	-1
		MDY	-11			Midway Islands	-11				

\* The displays of city code and the time difference from UTC are subject to change depending on model.

\* “.” between figures of the display of time difference shows that there is a time zone in that place.

### HOW TO USE THE DAYLIGHT SAVING FUNCTION

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. GPS Solar has an easy daylight saving function that turns daylight saving on or off.

- 1) Pull the crown out to the first click. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the ‘.’ (for Daylight Savings off).
- 2) Press and hold BUTTON A for approx. 3 seconds to turn it either on or off.
- 3) The hands will move forward (on), or backward (off) one hour.
- 4) Push crown back in flush against the case.

### FLIGHT MODE

GPS reception may influence the aeroplanes electronic equipment so GPS Astron has a flight mode you can activate when travelling on an aeroplane.

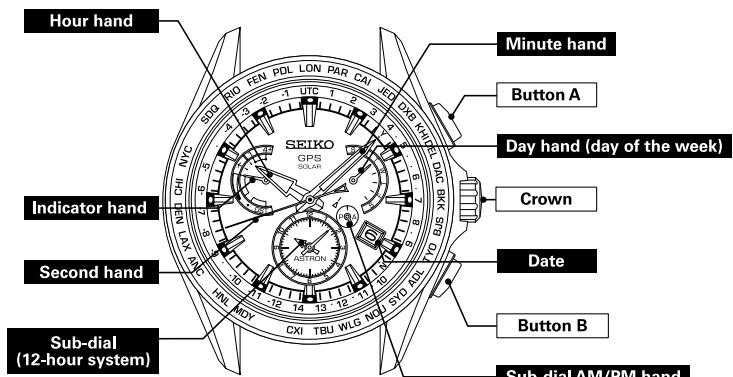
### TURN FLIGHT MODE ON OR OFF

- 1) Press and hold BUTTON B for approx. 3 seconds.
- 2) The indicator hand in the left dial will move to the image of the plane located on the left side of the outer ring.
- 3) To turn flight mode off, press and hold BUTTON B for approx. 3 seconds. The hand will move back to the power reserve indicator.

**SOLAR GPS DUAL TIME (8X53)**

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly\*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date and day of the week automatically until February 2100 including leap years and short months
- World Time
- Dual Time function
- Power Save Mode – Astron sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

\* Time zone data as of January 2014. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



\* Display of city name may vary depending on the model.

**HOW TO ADJUST TIME USING GPS SIGNALS**

1. Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure Astron is out of flight mode – follow the steps detailed later in this guide.
2. Press and hold BUTTON A. The second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the small second hand moves to the 30 second mark release BUTTON A.
3. The second hand will then move around the dial pointing at the number markers indicating how many satellites it is connected to. If it is pointing at the 3 marker, it is connected to three satellites etc. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
4. After Astron connects to satellites the second hand will move to Y (8 second mark) for a successful connection, or N (22 second mark) for an unsuccessful connection. The Y & N are indicated on the inner dial ring.
5. The main hands on Astron will move to the correct time based on your position.

**MANUAL TIME ADJUSTMENT & WORLD TIME FUNCTION**

In places where the GPS timezone change is not possible Astron can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

1. Pull the crown out to the first click. The second hand will move and point to the current timezone set detailed on the bezel, or inner dial ring (model dependant).
2. Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
3. Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.

The following list shows the relationship between displays of the bezel and dial ring and time difference from the UTC. Please refer to the second hand positions below to set the time zone or to check the time zone setting.

DST (Daylight Saving Time) is used in time zones with a ★ mark. In the Lord Howe Island time zone in Australia with a ★ mark, the time is advanced by 30 minutes while DST (Daylight Saving Time) is in effect.

This watch corresponds to DST in the Lord Howe Island time zone.

\* Each time zone is based on data as of March 2015.

Display of time zone  
Representative city names...  
28 cities around the total of 40 world time zones...  
+14 hours -- -12 hours  
(Check the time zone) - P. 21  
[Time Zone Adjustment] - P. 17



\* The displays of city code and the time difference from UTC are subject to change depending on model.  
\* "-" between figures of the display of time difference shows that there is a time zone in that place.

**HOW TO USE THE DAYLIGHT SAVING FUNCTION**

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. Astron has an easy daylight saving function that turns daylight saving on or off.

1. Pull the crown out to the first click. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the '.' (for Daylight Savings off).
2. Press and hold BUTTON A for approx. 3 seconds to turn it either on or off.
3. The hands will move forward (on), or backward (off) one hour.
4. Push crown back in flush against the case.

**FLIGHT MODE**

GPS reception may influence the aeroplanes electronic equipment so GPS Astron has a flight mode you can activate when travelling on an aeroplane.

**TURN FLIGHT MODE ON OR OFF**

1. Press and hold BUTTON B for approx. 5 seconds.
2. The indicator hand in the left dial will move to the image of the plane located on the left side of the outer ring.
- 3) To turn flight mode off, press and hold BUTTON B for approx. 5 seconds. The hand will move back to the power reserve indicator.

**CHANGING THE TIME IN THE DUAL TIME SUB DIAL**

1. Pull the crown out to the first click.
2. Press BUTTON B. The day of the week hand will move around and point at the symbol above the AM/PM indicator.
3. Turn the crown forward or backward and the second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
4. The hands in the small dual time sub dial will move to the timezone selected.

NOTE – The subdial cannot be adjusted to a time outside the timezone.

5. Push the crown back in flush against the case.

**ADJUST DAYLIGHT SAVING TO THE DUAL TIME SUB DIAL**

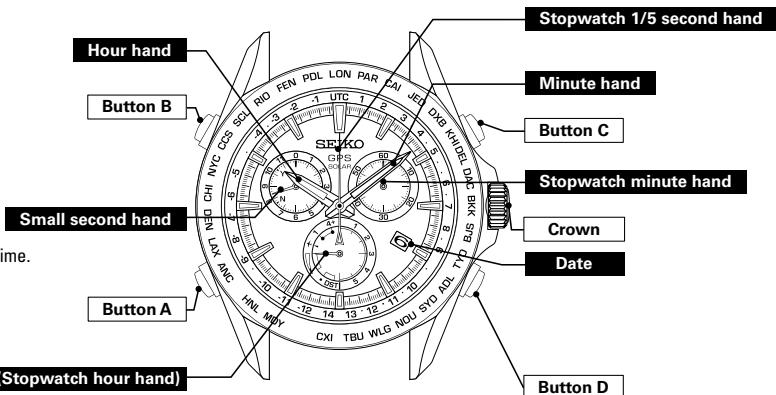
1. Pull the crown out to the first click
2. Press BUTTON B. The left indicator dial's hand will move to either DST (for Daylight Savings on) or the '.' (for Daylight Savings off).
3. Press BUTTON A for approx. 3 seconds to turn it on or off. This must be done within 5 seconds of pulling the crown out.
4. Push the crown back in flush against the case.

## OPERATING INSTRUCTIONS

### SOLAR GPS CHRONOGRAPH (8X82)

- Solar – Powered by any light source.
- GPS Connectivity – Connect to satellites to pinpoint your position and adjust timezone accordingly\*
- Flight Mode – turn on and off during flights.
- Perpetual Calendar – Adjusts the date automatically until February 2100 including leap years and short months
- Stopwatch – Measures 6 hours in 1/5th of a second increments with split/lap time.
- World Time
- Power Save Mode – Astron sleeps when not in sufficient light to conserve energy, and when exposed to light will wake up and relay to the current time.

\* Time zone data as of January 2014. Changes to time zones occurring after this date are not programmed and manual adjustment may be required.



#### HOW TO ADJUST TIME USING GPS SIGNALS

1. Ensure you are outdoor under an open sky with good visibility. Away from trees, buildings bridges etc. Ensure Astron is out of flight mode – follow the steps detailed later in this guide.
2. Press and hold BUTTON B . The small second hand will move to the 60 second mark and stop briefly. It will then move to the 30 second mark. Once the small second hand moves to the 30 second mark release BUTTON B.
3. The small second hand will then move around the dial pointing at the number detailed on the outer ring of this indicating how many satellites it is connected to. A minimum of 4 satellites is required for a successful timezone adjustment. The GPS Signal and Time change can take up to 2 minutes.
4. After Astron connects to satellites the small second hand will move to Y for a successful connection, or N for an unsuccessful connection. The Y & N are indicated inside the small second hand dial.
5. The main hands on Astron will move to the correct time based on your position.

#### MANUAL TIME ADJUSTMENT & WORLD TIME FUNCTION

In places where the GPS timezone change is not possible Astron can be set manually without the need to connect to a satellite. This function can also be used as a World Timer.

1. Pull the crown out to the first click. The 1/5th of a second hand will move and point to the current timezone set.
2. Turn the crown forward or backward and the 1/5th of a second hand will point to the next timezone detailed on the inner ring, or city detailed on the bezel (model dependant) and instantly move the hands to that timezone.
3. Once you have selected your desired timezone push the crown back in flush to the case.

Use the below table to discover world timezones.

The following list shows the relationship between displays of the bezel and dial ring and time difference from the UTC. Please refer to the second hand positions below to set the time zone or to check the time zone setting.

DST (Daylight Saving Time) is used in time zones with a ★ mark.  
In the Lord Howe Island time zone in Australia with a ▲ mark, the time is advanced by 30 minutes while DST (Daylight Saving Time) is in effect.  
This time corresponds to DST in the Lord Howe Island time zone.

\* Each time zone is based on data as of January 2014.



The displays of city code and the time difference from UTC are Subject to change owing to model changes.  
\* Between figures of the display of time difference shows that there is the time zone on that place.

Display of time zone	City code	Display of time difference	City name	UTC ± hours
29 cities among the total of 40 time zones around the world	LON	UTC	★London	0
Time difference--	PAR	1	★Paris/★Berlin	+1
+14 hours ~ -12 hours	CAI	2	★Cairo	+2
[Clock time zone] → +18	JED	3	Jeddaah	+3
[Time Zone Adjustment] → -16	—	★Tehran	+3.5	
—	DXB	4	Dubai	+4
—	KHI	5	Karachi	+5
—	DEL	6	Delhi	+5.5
—	—	—	Kathmandu	+5.75
—	DAC	6	Dhaka	+6
—	—	—	Vangon	+6.5
—	BKK	7	Bangkok	+7
—	—	—	—	—
Display of time difference	LON	UTC	★London	0
—	BJU	8	Beijing	+8
—	—	—	Edua	+8.75
—	TYO	9	Tokyo	+9
—	ADL	—	★Adelaide	+9.5
—	SYD	10	★Sydney	+10
—	—	—	Lord Howe Island	+10.5
—	NOU	11	Noumea	+11
—	—	—	Norfolk Island	+11.5
—	WLG	12	★Wellington	+12
—	—	—	Chatham Islands	+12.75
—	TBU	13	Nuku'alofa	+13
—	CXI	14	Kiritimati	+14
—	—	—	Baker Island	+12
—	MDV	—11	Midway Islands	-11
Display of time difference	MDV	-11	★Azores	-1

#### HOW TO USE THE DAYLIGHT SAVING FUNCTION

Some areas have daylight savings where the time is set forward to gain an extra hour of sunlight. Astron has an easy daylight saving function that turns daylight saving on or off.

1. Pull the crown out to the first click. The bottom dial's hand will move to either DST (for Daylight Savings on) or the ‘.’ (for Daylight Savings off).
2. Press and hold BUTTON B for approx. 3 seconds to turn it either on or off.
3. The hands will move forward (on), or backward (off) one hour.

#### FLIGHT MODE

GPS reception may influence the aeroplanes electronic equipment so GPS Astron has a flight mode you can activate when travelling on an aeroplane.

#### TURN FLIGHT MODE ON OR OFF

1. Press and hold BUTTON A for approx.. 5 seconds.
2. The indicator hand in the bottom dial will move to the image of the plane located on the left side of the outer ring.
3. To turn flight mode off, press and hold BUTTON A for approx. 5 seconds. The hand will move back to the power reserve indicator

#### STOPWATCH MODE

When using the stopwatch the hands will move and behave differently to normal time mode.

- The large second hand becomes the 1/5th of a second hand
  - The dial on the right side is the Stopwatch minute hand
  - The bottom dial and indicators become the hour hand
1. To start the stopwatch press BUTTON C
  2. To stop the stopwatch press BUTTON C
  3. To reset the stopwatch press BUTTON D

#### SPLIT/LAP TIME

While the stopwatch is in operation press BUTTON D to split time. The stopwatch hands will freeze to indicate time. Press BUTTON D to release split time and the stopwatch will catch up and continue on to real time.

NOTE – While the stopwatch is in operation the GPS timezone function will not work.

**SERVICE NETWORK FOR WARRANTY REPAIRS**

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Service Agent for Seiko, Pulsar, Lorus

SEIKO Australia Pty Ltd

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Auckland NZ 0632

PO Box 100037, North Shore,

New Zealand 0745

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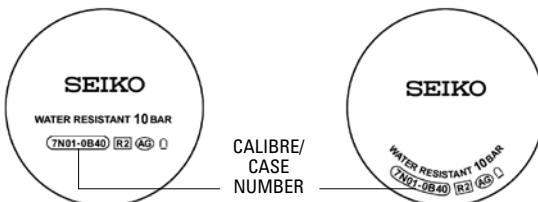
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Model Number	Price	Page
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## NEW ZEALAND

226A Bush Road  
Albany  
New Zealand 0632  
PO Box 100037  
North Shore Mail Centre  
Auckland 0745  
Ph: +64 (9) 415 5668  
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